

2007 ENGINE

Exhaust System - Repair Instructions - Cooper

00 EXHAUST SYSTEM, COMPLETE

18 00 020 REMOVING AND INSTALLING COMPLETE EXHAUST SYSTEM (N12)

WARNING: Danger of burning and other injuries!
These tasks should only be carried out on an exhaust system that has cooled down.
Removal of the exhaust system must be carried out with the assistance of a second person.

Unfasten clip.

Tightening torque: 18 31 5AZ, see **18 31 EXHAUST SYSTEM, COMPLETE**

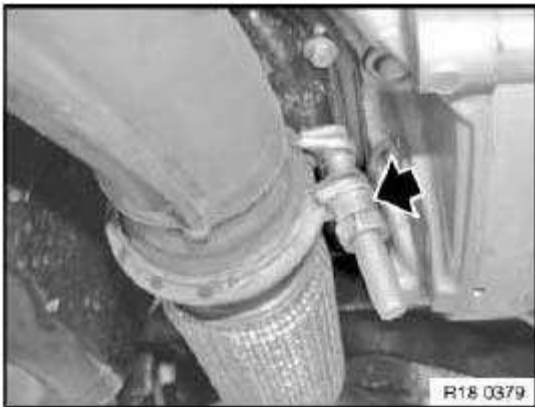


Fig. 1: Locating Clip

Courtesy of BMW OF NORTH AMERICA, INC.

Spray rubber mount (1) with antiseize agent and detach from rear muffler (2).

NOTE: Illustration shows and text refers to the right rubber mount.

The procedure is identical for the left side.

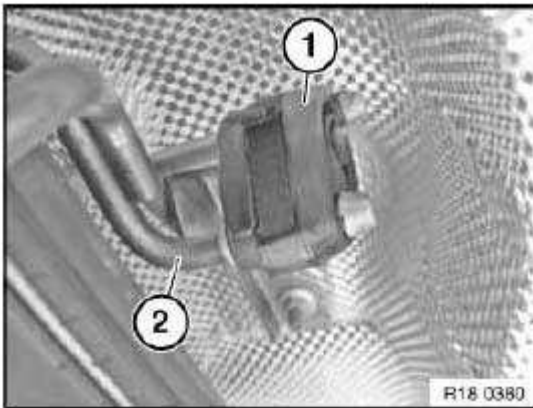


Fig. 2: Mount And Rear Muffler

Courtesy of BMW OF NORTH AMERICA, INC.

Spray rubber mount (1) with antiseize agent and detach from exhaust pipe (2).

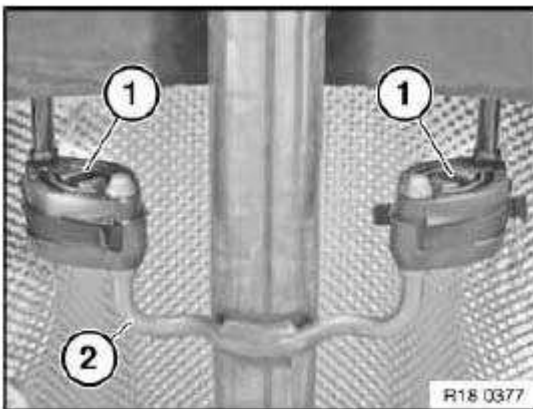


Fig. 3: Rubber Mount And Exhaust Pipe

Courtesy of BMW OF NORTH AMERICA, INC.

Support exhaust system with a suitable lifter.

Release screws and remove cross-brace (1).

Lower and remove exhaust system with assistance of a second person.

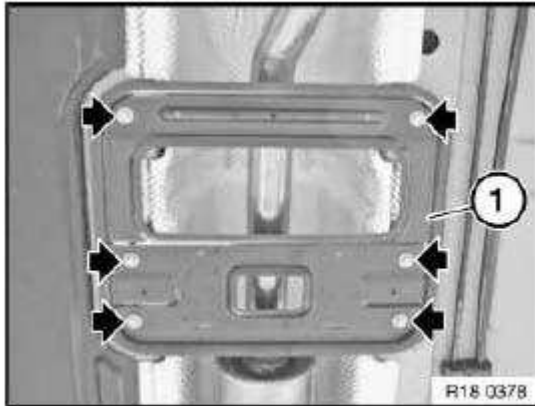


Fig. 4: Locating Screws

Courtesy of BMW OF NORTH AMERICA, INC.

NOTE: Check rubber mount for damage, replace if necessary.

12 MUFFLERS, PETROL

18 12 030 REMOVING AND INSTALLING/REPLACING REAR MUFFLER (N12, N14)

Special tools required:

- **00 2 210 EXHAUST PIPE CUTTER**

WARNING: Scalding hazard!

Only perform these tasks after exhaust system has cooled down.

Cutting line (1) for rear muffler is designated by a notch in the pipe.

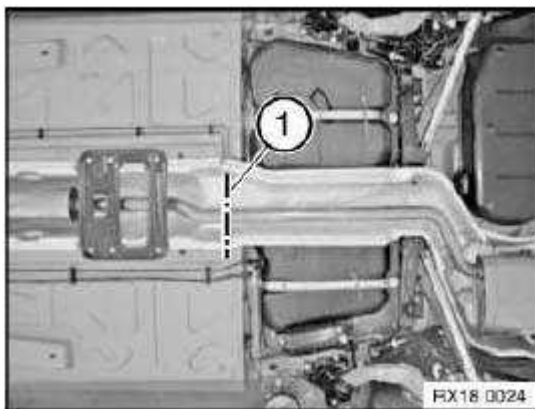


Fig. 5: Line For Rear Muffler

Courtesy of BMW OF NORTH AMERICA, INC.

Cut exhaust pipe with special tool 00 2 210 at marked point and deburr.

IMPORTANT: Risk of damage!

Secure exhaust pipe of rear muffler against falling down with assistance of a second person.

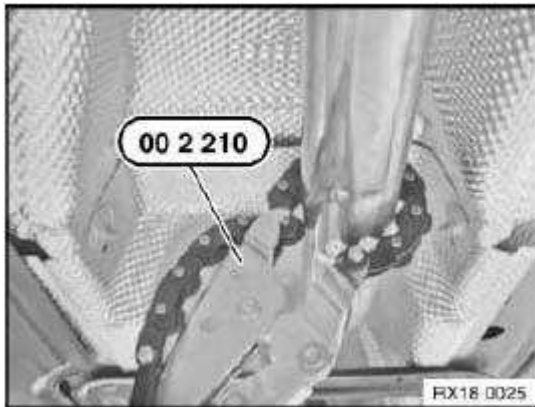


Fig. 6: Special Tools (00 2 210)

Courtesy of BMW OF NORTH AMERICA, INC.

Spray rubber mount (1) with antiseize agent and detach from rear muffler (2).

NOTE: Illustration shows and text refers to the right rubber mount. The procedure is identical for the left side.

Lower and remove rear muffler with assistance of a second person.

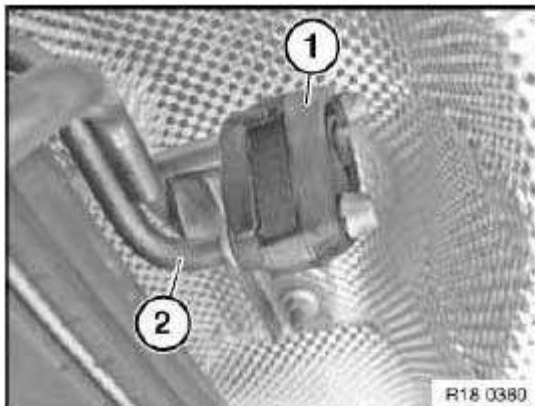


Fig. 7: Mount And Rear Muffler

Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Connect rear muffler to front muffler by means of a clamp.

Align rear muffler to rear apron.

Align clamp and tighten down.

Tightening torque: 18 31 6AZ, see **18 31 EXHAUST SYSTEM, COMPLETE**

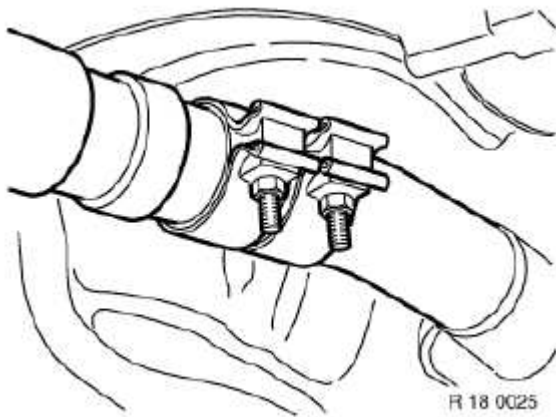


Fig. 8: Connecting Rear Muffler To Front Muffler By Clamp
Courtesy of BMW OF NORTH AMERICA, INC.

NOTE: Check exhaust system for leaks.

18 12 040 REMOVING AND INSTALLING/REPLACING FRONT MUFFLER (N12, N14)

Special tools required:

- **00 2 210 EXHAUST PIPE CUTTER**

WARNING: Scalding hazard!

Only perform these tasks after exhaust system has cooled down.

Unfasten clip.

Tightening torque: 18 31 5AZ, see **18 31 EXHAUST SYSTEM, COMPLETE**

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Fig. 9: Locating Clip

Courtesy of BMW OF NORTH AMERICA, INC.

Cutting line (1) for front muffler is designated by a notch in the pipe.

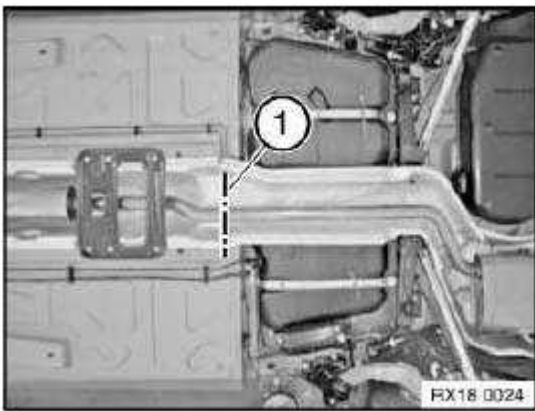


Fig. 10: Line For Front Muffler

Courtesy of BMW OF NORTH AMERICA, INC.

Cut exhaust pipe with special tool 00 2 210 at marked point and deburr.

IMPORTANT: Risk of damage!

Secure exhaust pipe of rear muffler against falling down.

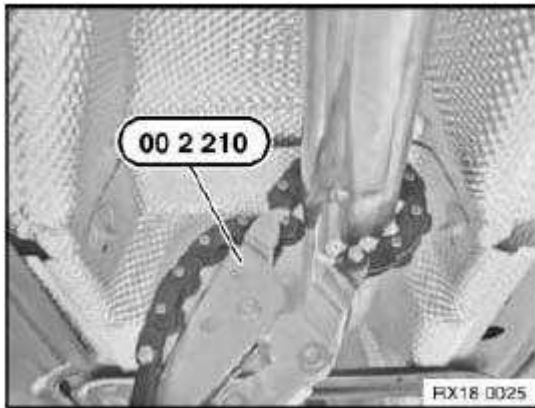


Fig. 11: Special Tools (00 2 210)

Courtesy of BMW OF NORTH AMERICA, INC.

Spray rubber mount (1) with antiseize agent and detach from exhaust pipe (2).

NOTE: Check rubber mount for damage, replace if necessary.

Lower and remove front muffler with assistance of a second person.

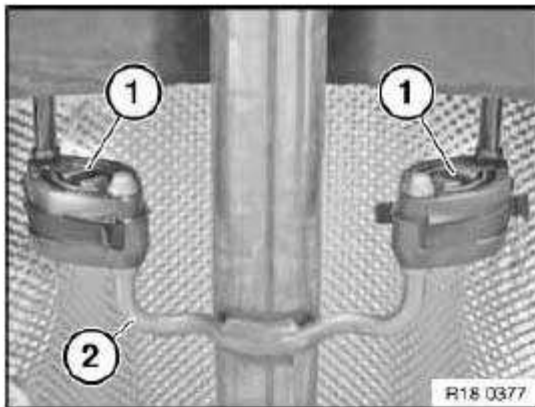


Fig. 12: Rubber Mount And Exhaust Pipe

Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Connect rear muffler to front muffler by means of a clamp.

Align rear muffler to rear apron.

Align clamp and tighten down.

Tightening torque: 18 31 6AZ, see **18 31 EXHAUST SYSTEM, COMPLETE**

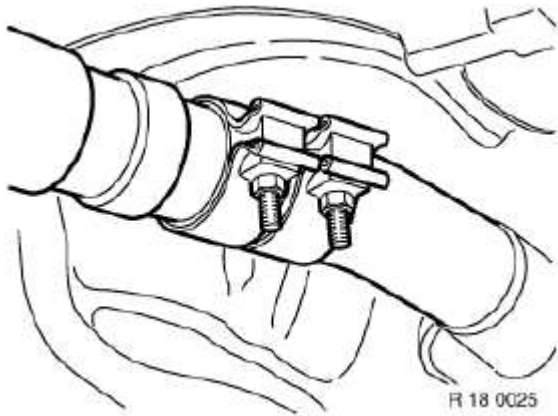


Fig. 13: Connecting Rear Muffler To Front Muffler By Clamp
Courtesy of BMW OF NORTH AMERICA, INC.

NOTE: Check exhaust system for leaks.

40 EXHAUST MANIFOLD

18 40 040 REMOVING AND INSTALLING/REPLACING EXHAUST MANIFOLD (N12)

WARNING: Scalding hazard!

Only perform these tasks after exhaust system has cooled down.

Necessary preliminary tasks:

- Move front panel into assembly position, see **41 33 600 MOVING FRONT PANEL INTO ASSEMBLY POSITION**

NOTE: The oxygen sensors are in danger of being damaged when the exhaust manifolds are removed and installed.

Remove control sensor, see **11 78 510 REPLACING OXYGEN SENSOR**

Remove monitor sensor, see **11 78 610 REMOVING AND INSTALLING/REPLACING MONITOR SENSOR (N12)**

Release screws and remove upper heat shield (1).

Tightening torque: 11 65 7AZ, see **11 65 TURBOCHARGER AND CONTROL**

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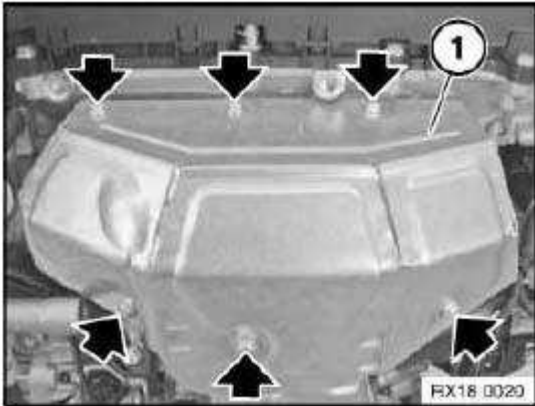


Fig. 14: Locating Upper Heat Shield Screws
Courtesy of BMW OF NORTH AMERICA, INC.

Release screws and remove lower heat shield (1).

Tightening torque: 11 65 7AZ, see **11 65 TURBOCHARGER AND CONTROL**

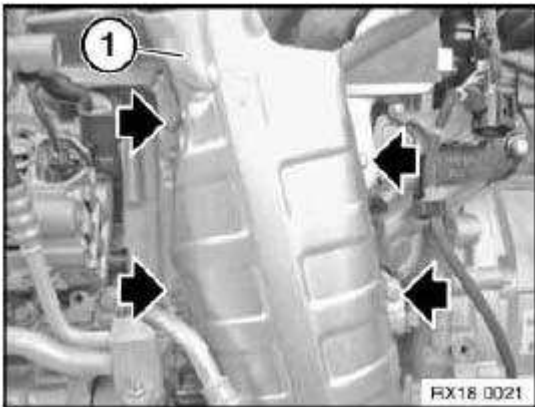


Fig. 15: Locating Lower Heat Shield Screws
Courtesy of BMW OF NORTH AMERICA, INC.

Unfasten screws.

Tightening torque: 18 40 3AZ, see **18 40 EXHAUST SYSTEM, COMPLETE**

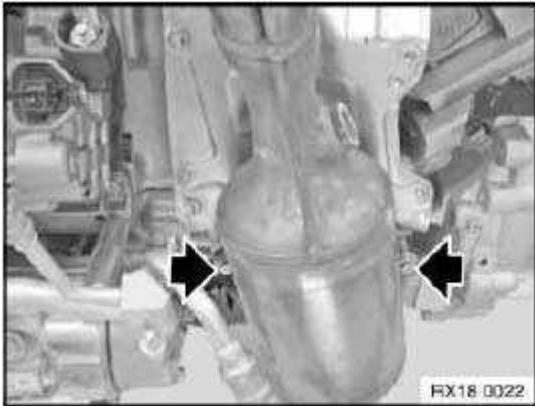


Fig. 16: Locating Screws

Courtesy of BMW OF NORTH AMERICA, INC.

Release nuts and remove exhaust manifold (1).

Installation:

- Replace seal and nuts.
- Clean sealing surfaces.
- Apply a thin coat of copper paste to thread.
- Tightening torque: 18 40 1AZ, see **18 40 EXHAUST SYSTEM, COMPLETE**

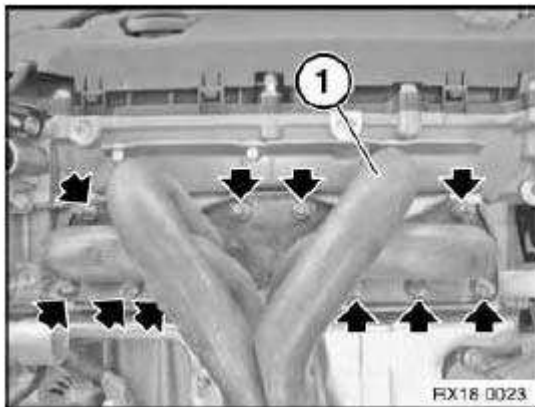


Fig. 17: Locating Exhaust Manifold Nuts

Courtesy of BMW OF NORTH AMERICA, INC.